Original/Duplicate/ Triplicate

CONTRACT CERTIFICATE

(For Other Works)

No: First and PartBill

Date.....20

Division: **Project**

Sub-Division: **Project Sub Division**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Work Code: ~~005-20-000013~~**

Schedule Docket No. COS-21-000092 Head of Account: Est.Cost-**800.00 Lakhs**

Name of Work: **Construction of RO Plant and Drilling of Borewells Installation of Pump and Motors, Providing Pipeline and Additional Motor Pumps and Necessary Accessories to Existing Borewells in Bellahlli, Kattigenahlli, Chokkanahalli, Thirumenahalli, Palanahalli, Agrahara, Sampigenahalli, Srirampura, Jakkur, Kogilu in Ward No.05**

Name of Contractor and Full Address: **M/s Sathya Borewell Cleaning, No.10, Ram Rao Building, T Dasarahalli, Bangalore-560057**

Reference to Agreement No: **EE(Project)/ Ynk Zone / WO/46/2020-21** Date: **13-07-2020**

467 ~~470~~ of 382459 - 470

Certified that the measurements were taken by me on 10/5/21 and recorded of Pages

measurement Book No. NO2/19-20 (3821) and that the work is satisfactorily executed.

Contractor

Officer in charge of work

Certified that the measurement were taken by me on 10/5/2021 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

10/5/21

Sub-Division Officer

II Memorandum of Payment

1) Total value of work done or supplies made as per account within — FOUR RUPEES 4,45,17,331.00
2) Deduct amount to be held in reserve being .....percent Rs.....
3) " Balance
4) Deduct Payment:
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount adjusted towards cash advance recovery of
   b) Payments Now made } cost store or other material supplied. / recovery of amount creditable to this/other work / Amount paid on this bill Cheque / Cash.
5) Balance being unpaid value of work done held in reserve.
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.
7) Net amount due to or from Contractor unadjustments items.
8) Advance to Contractor for materials brought to site (as detailed) within.
9) Value of Government materials supplied.

Deduct 1T%	4,45,173.00
CONTI.	4,45,173.00
CBFO.1%	4,45,17.00
CAST	3,97,476.00
SCST	3,97,476.00
Total deductn	17,29,816.00
Net payable	4,27,87,515.00
Total amount adjusted -	

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum (in final settlement of all demands)

(For use in the Office)

Witness

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Stamp

Audited & Admitted for Rs.....

Rs. 4,45,17,331/-

Rs. 4,27,87,515/- by Cheque

and Rs. 17,29,816/- by Adjustment

26/6/2021

Accts. Supdt.
Project Division
B.B.M.P.

Executive Engineer
Project Division
B.B.M.P

Initials of Officer making payment

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ABSTRACT

SL No	Items Grouped under sub-heads and sub-works of the estimate	Unit	As Per Approved Schedule -B			Previous Measurement			Present Measurement			Total Up-to-date	
			Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Amount
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc	No.	69	4220.00	291180	-	-	-	59	4220	248980	59	248980
2	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 0 to 50 m	Rmtr	3450	389.00	1342050	-	-	-	2950	389	1147550	2950	1147550
3	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 50 to 100 m	Rmtr	3450	496.00	1711200	-	-	-	2950	496	1463200	2950	1463200

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Sl. No	Items Grouped under sub-heads and sub-works of the estimate	Unit	As Per Approved Schedule -B			Previous Measurement			Present Measurement			Total Up-to-date	
			Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Amount
4	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 100 to 150 m	Rmtr	3450	511.00	1762950	-	-	-	2950	511	1507450	2950	1507450
5	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 150 to 200 m	Rmtr	3450	601.00	2073450	-	-	-	2950	601	1772950	2950	1772950
6	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 200 to 250 m	Rmtr	3450	711.00	2452950	-	-	-	2950	711	2097450	2950	2097450
7	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 250 to 300 m	Rmtr	3450	785.00	2708250	-	-	-	2950	785	2315750	2950	2315750

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SL No	Items Grouped under sub-heads and sub-works of the estimate	Unit	As Per Approved Schedule -B			Previous Measurement			Present Measurement			Total Up-to-date	
			Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Amount
8	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 300 to 350 m	Rmtr	3450	250.00	862500	-	-	-	2950	250	737500	2950	737500
9	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 350 to above	Rmtr	3450	713.00	2459850	-	-	-	2950	713	2103350	2950	2103350
10	Supplying of ISI Mark 175 mm nominal bore medium black ERW casing pipe of 5mm thick black electric resistance continous welded midle steel tube material confirming to IS 1387/1993 and manufactured from hot rolled steel skelp/stripes in random length of 4 to 7 mtr both ends threaded confirming to IS 554/1985 one end(including of all taxes)	Rmtr	4140	1480.00	6127200	-	-	-	3154	1480	4667614	3154 3155	4667614 A6694.00
11	Providing and fixing 250mm dia PVC pipe and as per specification and directions.	Rmtr	690	1518.00	1047420	-	-	-	590	1518	895620	590	895620
12	175 mm dia M.S. Casing cap	No	69	103.00	7107	-	-	-	59	103	6077	59	6077
13	M.S. Casing pipe collars 'C' Class	No	690	154.00	106260	-	-	-	526	154	80927	526	80927
14	Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sq cm	Sqm	1518000	0.33	500940	-	-	-	990000	0.33	326700	990000	326700 81004.00

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	grouped under sub-heads and sub-works of the estimate	Unit	As Per Approved Schedule -B			Previous Measurement			Present Measurement			Total Up-to-date	
			Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Amount
15	Labour charges for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m)	Each	3450	100.00	345000	-	-	-	2745	100	274500	2745	274500
16	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete	No	207	234.00	48438	-	-	-	135	234	31590	135	31590
17	Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554)	Mtr	2415	140.00	338100	-	-	-	1494	140	209160	1494	209160
18	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc., Complete sutting road surfaces	Mtr	2415	120.00	289800	-	-	-	1494	120	179280	1494	179280
19	Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm	Mtr	138	300.00	41400	-	-	-	90	300	27000	96	27000
20	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia	No	69	4350.00	300150	-	-	-	45	4350	195750	45	195750
21	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc,	No	69	280.00	19320	-	-	-	45	280	12600	45	12600
22	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches	No	69	302.00	20838	-	-	-	45	302	13590	45	13590

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Sl. No	Items Grouped under sub-heads and sub-works of the estimate	Unit	As Per Approved Schedule -B			Previous Measurement			Present Measurement			Total Up-to-date	
			Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Amount
23	Cleaning of bore well including yield tetsting of borewell either using slow or fast rig for not more than 2 hours at the final depth with air compressor or suitable pump as per specification (PRED 12-13 SL NO.9.5 PAGE NO.49)	Each	10	11000.00	110000	-	-	-	0	11000	0	0	0
24	Borewell Clamp Set	Set	69	1800.00	124200	-	-	-	45	1800	81000	45	81000
25	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz 380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 17.5HP 30 Stage	No	51	78000.00	3978000	-	-	-	28	78000	2184000	28	2184000
26	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz 380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 20 HP 40 Stage	No	30	98000.00	2940000	-	-	-	17	98000	1666000	17	1666000
27	Providing, laying & jointing GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc, complete 'A' grade(excluding cost of fittings) 50mm dia GI pipe B Class	Rmtr	26465	435.00	11512275	-	-	-	16471	435	7164885	16471	7164885
28	Supply and fixing Heavy Collar for GI Pipes 50MM	No	3864	190.00	734160	-	-	-	2835	190	538650		

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Executive Enginee
Division yelahanka
BBMP Bangalore.

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SL No	Items Grouped under sub-heads and sub-works of the estimate	Unit	As Per Approved Schedule -B			Previous Measurement			Present Measurement			Total Up-to-date	
			Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Amount
29	Supplying of submersible pump cable 1X3X6 .0 Sq.mm	Mtr	55300	145.00	8018500	-	-	-	33843	145	**4907289**	33843	**4907289**
30	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above Up to 20HP with star delta starter (MR)	No	74	22000.00	1628000	-	-	-	45	22000	**990000**	45	**990000**
31	Supplying & delivery of brand 50mm Gate Valve.	No	69	1800.00	124200	-	-	-	45	1800	**81000**	45	**81000**
32	Supplying & delivery of brand 50mm Non Return Valve.	No	69	1800.00	124200	-	-	-	45	1800	**81000**	45	**81000**
33	Supplying and fixing MCB	No	69	900.00	62100	-	-	-	45	900	**40500**	45	**40500**
34	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications	Cum	10929.6	318.00	3475613	-	-	-	2925	318	**930150**	2925	**930150**
35	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete	Mtr	24288	395.00	9593760	-	-	-	6500	395	**2567500**	6500	**2567500**

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			Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Amount
36	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications	Cum	10929.6	129.00	1409919	-	-	-	2925	129	377325	2925	377325
37	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications and directions of the engineer incharge.	cum	98.76	290.00	28641	-	-	-	-	-	-	-	-
38	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications and directions of the engineer incharge.	cum	29.86758	5220.00	155909	-	-	-	-	-	-	-	-
39	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications and directions of the engineer incharge.	cum	53.3304	4300.00	229321	-	-	-	-	-	-	-	-
40	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications and directions of the engineer incharge.	cum	26.6652	5000.00	133326	-	-	-	-	-	-	-	-

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			Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Amount
41	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications and directions of the engineer incharge.	cum	30.116	79.00	2380	-	-	-	-	-	-	-	-
42	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates :@0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications and directions of the engineer incharge.	cum	15.05358	5300.00	79784	-	-	-	-	-	-	-	-
43	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour completeas per specifications and directions of the engineer incharge.	cum	59.256	265.00	15703	-	-	-	-	-	-	-	-
44	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundationfor footing ,pedestals ,retaining walls ,retern walls , walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, bed blocks, anchor blocks, and plinth etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications and directions of the engineer incharge.	cum	13.8879	6225.00	86453	-	-	-	-	-	-	-	-

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			Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Amount
45	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and directions of the engineer incharge.	m	1.02587	58053.00	59555	-	-	-	-	-	-	-	-
46	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications and	sqm	252.3408	970.00	244771	-	-	-	-	-	-	-	-
47	KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and directions of engineer in charge.	sqm	504.6816	215.00	108507	-	-	-	-	-	-	-	-
48	Fabricating, supplying and erecting M.S. TubularTruss of span upto 10m. The bottom and top member is provided with 50x50x6mm double equal angles, welded back to back and in between top and bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the members are welded together with 6mm gusset plate as per Drawing. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all themembers including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc., complete as per specification and directions of engineer in charge.	sqm	2700	114.00	307800	-	-	-	-	-	-	-	-

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			Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Amount
49	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses complete	sqm	155.1972	797.00	123693	-	-	-	-	-	-	-	-

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			Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Rate Rs.	Amount	Qty	Amount
50	KSRB 7.17 : Providing, fabricating, assembling and fixing in position aluminium doors using following aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness 3.18mm, section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top section 47.62x44.45mm thickness 3.00mm, section weight 1.426kg/m bottom section 114.3x44.45 thickness 3.18mm, section weight 2.646kg/m, door central section 49.91x44.45mm thickness 3.00mm, section weight 1.495 kg/m glazing clips 19x17.3x11mm thickness 0.9mm section weight 0.124kg/m; aluminium sections cut to length joint metred cornersgrinded, the shutters pivoted opening arrangement with heavy duty aluminium alloy automatic door closures floor mounted, providing and fixing standard approved accessories, such as aluminium handle for full width or length, tower bolts, lock, pivots: P.V.C. or rubber gasket with 5.5m. thick plain glass for top and bottom panel; aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherance of mortars or any other sticky materials; the assembled frame fitted with the corner angles, strips and fitted with screws, rawl plugs or teakwood gutties to R.C.C. columns or masonry on sides. beams and flooring in bottom. including cutting, chistling and making good with cement mortar to match the surface; all the frames throughly cleaned free from rust, scale, or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications and direction of engineer in charge.	sqm	43.2	6400.00	276480	-	-	-	-	-	-	-	-
51	KSRB 7.11 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m, sides and top sections 1.3 mm, thick, weight 0.933 kg/m shutter frame section comprising top and bottom rail of size 40mm x 19mm x 1.3mm thick	sqm	8.64	4300.00	37152	-	-	-	-	-	-	-	-

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52	Providing flooring with 60 cms.x 60 cms. size Vitrified glazed tiles of approved quality & make, fixed on top of existing flooring fixed with suitable adhesive, including cutting the tiles to the required size and fixing etc., complete complete as per specifications and directions of the engineer incharge	sqm	115.1712	1107.00	127496	-	-	-	-	-	-	-	-
53	KSRB 7.5 : Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery. Shutter size 3mx2.8 m complete as per	43.2	43.2	2909.00	125669	-	-	-	-	-	-	-	-
54	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.completeas per specifications and directions of the engineer incharge.	kg	2016	79.00	159264	-	-	-	-	-	-	-	-
55	Providing and laying flooring using prepolished, water cut/ gang saw 19mm thick granite laid over bed of 20mm thick CM 1:4 and jointed with neat cement slurry mixed with pigments to match shade of granite slabs including laying of POP on finished surface and claning the surface including cost of all meterials and labour etc. complete as per specifications using solver grey granite/multy red/ruby red/black/Hassan green granite of width not less than 1200mm, complete as per specifications and directions of the engineer incharge.	sqm	15.12	2713.00	41021	-	-	-	-	-	-	-	-

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56	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications, with primer completeas per	sqm	304.1808	87.00	26464	-	-	-	-	-	-	-	-
57	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer completeas per specifications and directions of	sqm	304.1808	93.00	28289	-	-	-	-	-	-	-	-
58	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour,complete as per specifications and directions of the engineer	sqm	195.4267	85.00	16612	-	-	-	-	-	-	-	-
59	Conveying the excavated earth by private vehicle up to 15KMS including lead and lift loading unloading etc., complete as per specifications and Engineer incharge	cum	68.644	96.00	6590	-	-	-	-	-	-	-	-
60	Supplying water storage tanks made of virgin polymer (LLDPE) with two layers outer Black or Blue and inner White layer of approved quality and make, conforming to I.S.I./ISO/SSI complete as per specifications and directions of the engineer incharge.	litre	12000	7.00	84000	-	-	-	-	-	-	-	-
61	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc)25MM DIA complete as per specifications	M	300	259.00	77700	-	-	-	-	-	-	-	-

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62	KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. 13.2.6 / 13.3 complete as per specifications and	each	18	621.00	11178	-	-	-	-	-	-	-	-
63	SKID SS 202, PUMP CRI1HP, VESSEL-1354 PENTAIR, PRESSURE GAZE 10KGS NORMAL, MPV-1"NB FRONT FACE FILTER, HOUSING 20"JUMBO-1", SPUN 20 JUMBO, PUMP CRI 2 -180-3, PT-8040 FRP PANTHER, MEMBRANE DOW 8040, CONTROLL PANNEL 1X3 (SUPER), ROTAMETER 120-1680 ACRYLIC, ROTAMETER 400-2000 ACRYLIC, PRESSURE GAZE GLYSERINE - 21KG PANTHER, BRINE CON VALVE 3/4, ACRYLIC SHEET, LPS DENFOS, HPS DENFOS, DOSINGPUMP DOSE, SAND, CHEEPS, ACTIVATED CARBON INDUSTRIAL, ANTI DOSING CHEMICAL, HANDLE VALVE, ASSEMBLING AND COMMISSIONING, TANK SS304 1000LTR INCLUSIVE OF AUTOMATED COIN MACHINE complete as per specifications and directions of	nos	6	575414.00	3452484	-	-	-	-	-	-	-	-
64	Open conduit System: Supplying heavy gauge PVC conduit pipe .....dia confirming to IS 2509 with suitable size bends, plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using WF screws.a) 19/25 mm dia 2mm thickcomplete as per specifications	mts	300	52.00	15600	-	-	-	-	-	-	-	-
65	Supplying and flush mounting teak wooden box without front plank, made of not less than 15mm thick wood, after due groove cutting, necessary masonry patch work complete. d)8"x6"x3"(203x152x76mm) completeas per specifications and directions of the engineer incharge.	each	24	69.00	1656	-	-	-	-	-	-	-	-

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66	Point wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixied on the exisiting plastic sheet /gang box, the pther end of the wires shall be terminated with sufficient loose length in a wood/PVC round block.complete for each outlet. I. Point wiring using class A materials a) Short point upto 3Mtr from tapping point to out let via switch complete	each	6	167.00	1002	-	-	-	-	-	-	-	-
67	b) Medium point above 3Mtr upto 6Mtr from tapping pointr to out let viaswitch complete as per specifications and directions of the engineer incharge.	each	6	235.00	1410	-	-	-	-	-	-	-	-
68	c)Long point above 6Mtr upto 10Mtr from tapping point to out let via switch complete as per specifications and directions of the engineer incharge.	each	24	348.00	8352	-	-	-	-	-	-	-	-
69	Supplying 6A flush/projected type socket and a 6 amps flush/ projected type SP switch either surface/flush mounting in a exisiting gang box or in a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required. b) 6Amps 3/5 way complete aas per specifications and directions of the engineer incharge.	each	6	122.00	732	-	-	-	-	-	-	-	-
70	Wiring for lighting/power circuit using one of FLRS PVC insulated 1100v grade, multis and CopperWITH LOW conductor single core cable in open or consealed system of wiring.I Group A Materials.a) 1.5 sqmm complete as per specifications and directions of the engineer incharge.	m	480	12.00	5760	-	-	-	-	-	-	-	-
71	b)2.5Sqmm as per specifications and directions of the engineer incharge.	m	180	18.00	3240	-	-	-	-	-	-	-	-
72	c)4 sqmmas per specifications and directions of the engineer incharge.	m	960	28.00	26880	-	-	-	-	-	-	-	-
73	Supplying and fixing phylum brand hand plastic sheet 4mm thick with necessary niches for fixing switches, regulators etc., and fixing on exisiting wood or metal box using N.F.screws complete as per specifications and directions of the engineer incharge.	sqm	9000	0.24	2160	-	-	-	-	-	-	-	-

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74	Supplying and fixing pbbc bakelight stright or slant batton holderand wiring within 60v/230volts lamp group A complete as per specifications and directions of the engineer incharge.	each	24	84.00	2016	-	-	-	-	-	-	-	-
75	Supply patti type tube light fittings of 4'-28 watts fluorescent tube fittings made out of Ms sheet ans stove enameled with low loss open construction copper wound ferromagnetic ballast starter ,locking type brass contact holders mounted on double fold type sheet base fully wired for use on 230 volts AC supply including t5 lamp completeas per specifications and directions of the engineer incharge.	each	12	670.00	8040	-	-	-	-	-	-	-	-
76	Supply wall mountaing fan suitable to operate of single phase -230v A.C supply 400mm sweep a group A complete as per specifications and directions of the engineer incharge.	each	6	2430.00	14580	-	-	-	-	-	-	-	-
77	Supplying decorative horizontal type street light fluorocent fitting weather and water proof complete complete with energy saving electronoc ballast etc., locking type brass contact holders with one number of 4ft 40watt flourcent tube completely wired for use on 230/250volts 50cycles AC supply with opel reeded parspex cover of bottom complete fitting 1x4'-28watts complete as per specifications and directions of the engineer incharge.	each	6	1790.00	10740	-	-	-	-	-	-	-	-
78	FSUPPLING OF 2 PIN/4PIN 18W CFL LAMP complete as per specifications and directions of the engineer incharge.	each	12	115.00	1380	-	-	-	-	-	-	-	-
79	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides with plank made out of not more than 2 pices and fixing the same to the wall using tapered inverted woode plug screws etc., a) 20"x20"2.5" 6complete as per specifications and directions of the engineer incharge.	each	12	290.00	3480	-	-	-	-	-	-	-	-
80	Supplying and fixing of Procelain fuse channel with cut out on exisiting wooden/panel using necessary nuts, bolts and washers etc., complete.a) 32Amps complete as per specifications and directions of the engineer	each	36	173.00	6228	-	-	-	-	-	-	-	-

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81	Supply of an load charge over switches 4poles 415v 50Hz A.C supply with AC23A duty a) up to 63amps Groups A complete as per specifications and directions of the engineer incharge.	each	6	4691.00	28146	-	-	-	-	-	-	-	-
82	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and C type curve indicator ON/OFF Energy cross 3 with short circuit breaking capacity of 10K and complete wiring as required. e)5-32amps TPN . Group A completeas per specifications and directions of the	each	6	1856.00	11136	-	-	-	-	-	-	-	-
83	5-32amps TPNcomplete as per specifications and directions of the engineer incharge.	each	18	1484.00	26712	-	-	-	-	-	-	-	-
84	Supplying fixing and wiring Electronic10 to 40 amps Three phase 4wire class -1 Accuracy energy meter Group A complete as per specifications and directions of the engineer incharge.	each	6	4699.00	28194	-	-	-	-	-	-	-	-
85	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. the connection form the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 12mm dia complete as per specifications and directions of the engineer incharge.	NO	12	2615.00	31380	-	-	-	-	-	-	-	-
86	Supplying and running of GI/Copper strips for grounding connections using necessary fixing material as required GI strip 25x3mm completeas per specifications and directions of the engineer incharge.	m	90	74.00	6660	-	-	-	-	-	-	-	-
87	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable.d) 4 core 16 sqmm chaptcomplete as per specifications and Engineer incharge.	m	240	135.00	32400	-	-	-	-	-	-	-	-

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88	Labour charges for lying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct a) 6 sqmm to 16 sqmm completeas per specifications and directions of the engineer	m	180	15.00	2700	-	-	-	-	-	-	-	-
89	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete.a) In soil (ordinary) completeas per specifications and directions of the engineer incharge	m	180	122.00	21960	-	-	-	-	-	-	-	-
90	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. a) 40mm complete as per specifications and Engineer incharge.	m	12	370.00	4440	-	-	-	-	-	-	-	-
91	Supplying &fixing L.T.cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers ect.b) 16 Sqmm complete as per specifications and directions of the engineer incharge.	each	6	284.58	1708	-	-	-	-	-	-	-	-
	Total of Other SR Items including GST Unit Rate				31211286	-	-	-	-	-	28314588		28314588
	Total of PWD SR 2018-19 Items				43834927	-	-	-	-	-	21609299		21609299
	For 12% GST for Only PWD SR-2018-19 items				5260192	-	-	-	-	-	2593116		2593116
	TOTAL				80306405	-	-	-	-	-	44517003		44517003

10/5/21

Asst. Executive Engineer
Project Divisions yelahanka Zone
BBMP Bangalore

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